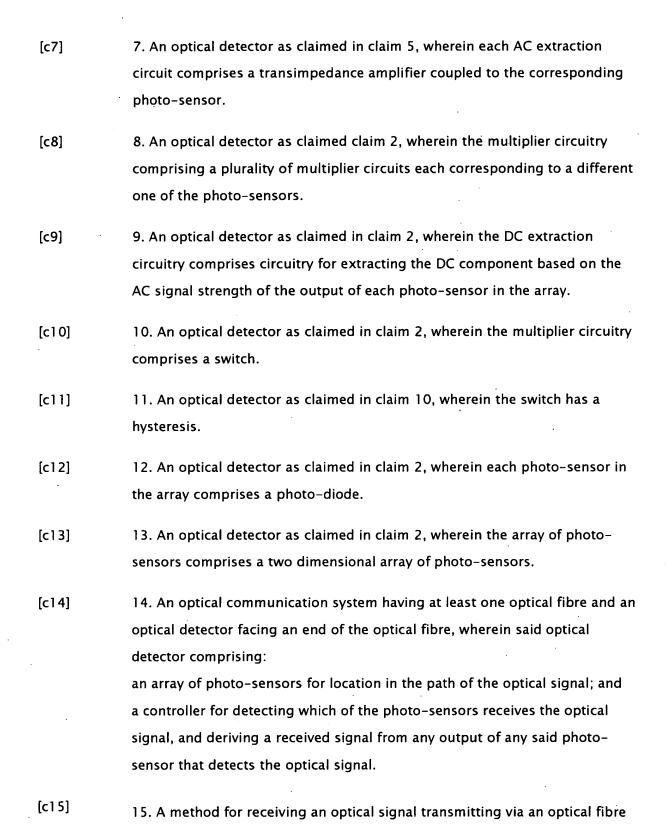
Claims

- [c1] 1. An optical detector for receiving an optical signal transmitted via an optical fibre cable, the detector comprising:

 an array of photo-sensors for location in the path of the optical signal; and a controller for detecting which of the photo-sensors receives the optical signal, and deriving a received signal from any output of any said photo-sensor that detects the optical signal.
- [c2] 2. An optical detector as claimed in claim 1, wherein the controller comprises: DC extraction circuitry for extracting a DC component from the output of each photo-sensor in the array; AC extraction circuitry for extracting an AC component from the output of each photo-sensor in the array; and, multiplier circuitry coupled to the DC extraction circuitry and to the AC extraction circuitry for generating a separate multiplier output based on the AC component and the DC component of the output of each photo-sensor in the array.
- [c3] 3. An optical detector as claimed in claim 2, wherein each multiplier output is based on the product of the AC component and the DC component of the output of the corresponding photo-sensor.
- [c4] 4. An optical detector as claimed in claim 2, wherein the controller comprises summation circuitry coupled to the multiplier circuitry for combining the multiplier outputs to generate the received signal.
- [c5] 5. An optical detector as claimed in claim 4, wherein the DC extraction circuitry comprises a plurality of DC extraction circuits each corresponding to a different one of the photo-sensors and the AC extraction circuitry comprises a plurality of AC extraction circuits each corresponding to a different one of the photo-sensors.
- [c6] 6. An optical detector as claimed in claim 5, wherein each DC extraction circuit comprising a DC current sensor coupled to the corresponding photosensor.



locating an array of photo-sensors in the path of the optical signal; detecting

which of the photo-sensors receives the optical signal; and, deriving a

cable, comprising the steps of:

received signal from an output of any said photo-sensor that detects a signal.

- [c16] 16. A method as claimed in claim 15, wherein the step of detecting further comprising the steps of: extracting a DC component from the output of each photo-sensor in the array; extracting an AC component from the output of each photo-sensor in the array; and, generating a separate multiplier output based on the AC component and the DC component of the output of each photo-sensor in the array.
- [c17] 17. A method as claimed in claim 16, further comprising the step of basing each multiplier output on the product of the AC component and the DC component of the output of the corresponding photo-sensor.
- [c18] 18. A method as claimed in claim 16, further comprising the step of combining the multiplier outputs to generate the received signal.